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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/777,545	02/12/2004	Kristian DiMatteo	10123/04501	5754
7590 02/17/2009 Patrick Fay, Esq. FAY KAPLUN & MARCIN, LLP Suite 702 150 Broadway New York, NY 10038			EXAMINER SCHELL, LAURA C	
			ART UNIT 3767	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/777,545	Applicant(s) DIMATTEO ET AL.	
	Examiner LAURA C. SCHELL	Art Unit 3767	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 September 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4,6,8,10,11,13,16,17,19,22 and 24-28 is/are pending in the application.
- 4a) Of the above claim(s) 22 and 24-28 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4,6,8,10,11,13,16,17,19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-4, 6, 8, 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Quinn (US 2001/0018576). Quinn discloses the device substantially as claimed including a catheter (Figs. 41-47) comprising: a catheter tube (811) containing a first and second tube lumens in said tube (827a and 827b, respectively); a distal tip (810) connected directly to said catheter tube (Figs. 41-47), the maximum radial dimension of said tip being substantially the same or smaller than the radial dimension of the tube adjacent said tip (Figs. 41-47 disclose the dimensions are the same); said distal tip having first and second tip lumens (859a and 859b, respectively) extending therethrough, wherein in an operative configuration, the first and second tip

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lumens are connected to said first and second tube lumens of said of said catheter tube; a partition separating the first tip lumen from the second tip lumen (858); a first opening (837) fluidly connected to the first tip lumen for inflow of fluid from a body lumen into which the distal tip is inserted in a normal mode of operation and for outflow of fluid into said body lumen in a reverse mode of operation (Figs. 41-46, first opening is 837); a second opening (877) fluidly connected to the second tip lumen, the second opening being disposed distally from the first opening and separated from the first opening by a selected stagger distance for outflow of fluid from the first opening when the catheter is in the normal mode of operation and for inflow of fluid from the body lumen in a reverse mode of operation (Figs. 41-46 disclose that the second opening is 877); a contoured flow deflection element (820/876) directing in the reverse mode of operation, outflow from the first opening away from the second opening; a contoured outlet portion (873/857) of the second opening reducing an outflow velocity therefrom in the normal mode of operation. Quinn's embodiment in Figs. 41-46, however, does not disclose side walls extending away from the partition on the same side as the first opening to create a channel between the first opening and the contoured flow deflection element. Quinn, however, does disclose in various other embodiments (Figs. 9 and 10 for example) a catheter with an opening (69) and sidewalls extending away from the partition to create a channel between the first opening and the contoured flow deflection element (Figs. 10 discloses that side walls 71 extend away from the partition bottom 72 between the opening and the contoured flow deflection element 57 to create a channel). Therefore it would have been obvious to one of ordinary skill in the art at the time of the

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invention to have modified Quinn's embodiment in Figs. 41-47 with the side walls, as taught by Quinn in the embodiment of Figs. 9 and 10, in order to provide an inlet/outlet which helps keep the fluid flowing in the intended direction in order to prevent the fluid from spilling over the sides and contaminating the fluid that is either coming in/going out the other opening.

In reference to claim 2, Quinn discloses that the first and second openings are disposed on opposite sides of the distal tip with respect to a longitudinal axis thereof (Figs. 41-46).

In reference to claim 3, Quinn discloses that the first and second openings have orifices extending in planes angled with respect to a longitudinal axis of the distal tip (Figs. 41-46).

In reference to claim 4, Quinn discloses that the contoured flow deflection element is adapted to direct outflow from the second opening away from the first opening in the normal mode of operation (Figs. 41-46).

In reference to claim 6, Quinn discloses that the first opening includes a longitudinally elongated first ramp portion (near 820) deflecting outflow therefrom away from a longitudinal axis of the distal tip in the reverse mode of operation (Figs. 41-46).

In reference to claim 8, Quinn discloses that the second opening includes a longitudinally elongated second ramp portion (near 878/889) deflecting outflow from the second opening away from a longitudinal axis of the distal tip in the normal mode (Figs. 41-46).

In reference to claim 10, Quinn discloses that the first and second lumens have substantially d-shaped cross sections (Figs. 41-46).

In reference to claim 11, Quinn discloses a contoured bolus (873) on said tip, including a longitudinally elongated first ramp substantially aligned with the first opening, a longitudinally elongated second ramp aligned with the second opening and an atraumatic distal tip (857).

Claims 16, 17 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Quinn (US 2001/0018576). Quinn discloses the catheter tip substantially as claimed including a flow control tip for a catheter including a single catheter tube (Figs. 41-47, 811) containing multiple lumens (827a and 827b), comprising: an attachment portion directly connected to a distal portion of said catheter tube (attachment portion is near 858/852 for example); and a contoured bolus (810) defining at least a portion of an inlet (837) and an outlet (877/889) of the distal tip, the inlet and outlet being separated by a partition (858) so that when coupled to the catheter, the inlet is coupled to a first one of the lumens and the outlet is coupled to a second one of the lumens, and a longitudinally elongated flow deflector (near 820) directing fluids exiting the inlet in a first mode away from the outlet, wherein the contoured bolus defines a specified stagger distance between the inlet and the outlet (Figs. 41-47). Quinn's embodiment in Figs. 41-46, however, does not disclose side walls extending away from the partition on the same side as the first opening to create a channel between the first opening and the

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contoured flow deflection element. Quinn, however, does disclose in various other embodiments (Figs. 9 and 10 for example) a catheter with an opening (69) and sidewalls extending away from the partition to create a channel between the first opening and the contoured flow deflection element (Figs. 10 discloses that side walls 71 extend away from the partition bottom 72 between the opening and the contoured flow deflection element 57 to create a channel). Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to have modified Quinn's embodiment in Figs. 41-47 with the side walls, as taught by Quinn in the embodiment of Figs. 9 and 10, in order to provide an inlet/outlet which helps keep the fluid flowing in the intended direction in order to prevent the fluid from spilling over the sides and contaminating the fluid that is either coming in/going out the other opening.

In reference to claim 17, Quinn discloses that the contoured bolus further comprises a second longitudinally elongated flow deflector directing fluid exiting the outlet in a second mode away from the inlet (near 878/857).

In reference to claim 19, Quinn discloses that the flow deflector comprises a ramp disposed adjacent an inlet opening (Figs. 41-46).

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Quinn (US 2001/0018576). Quinn discloses the device substantially as claimed including a stagger distance between the two openings (Figs. 41-46), however, Quinn does not disclose that the stagger distance is between about 1 and 1.5 cm. It would have been

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obvious to one of ordinary skill in the art to have modified Quinn such that the stagger distance is between 1 and 1.5 cm, since such a modification would have involved a mere change in the size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art. *In re Rose*, 105 USPQ 237 (CCPA 1955).

Response to Arguments

Applicant's arguments with respect to claims 1-4, 6, 8, 10, 11, 16, 17, 19 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LAURA C. SCHELL whose telephone number is (571)272-7881. The examiner can normally be reached on Monday-Friday 9am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Sirmons can be reached on (571) 272-4965. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Laura C Schell/

Examiner, Art Unit 3767

/Kevin C. Sirmons/

Supervisory Patent Examiner, Art Unit 3767